

WHAT IS CLAIMED IS:

1. A lithographic printing plate precursor which comprises an image-forming layer which contains a hydrophilic resin, an acid precursor and at least one component selected from fine particles containing a compound having a vinyloxy group and microcapsules containing a compound having a vinyloxy group, on a hydrophilic support.
2. A lithographic printing plate precursor which comprises an image-forming layer which contains a hydrophilic resin, an acid precursor and at least one component selected from fine particles containing a compound having an epoxy group and microcapsules containing a compound having an epoxy group, on a hydrophilic support.
3. A lithographic printing plate precursor which comprises a hydrophilic support having provided thereon an image-forming layer containing fine particles containing a thermosetting compound, and a hydrophilic resin.
4. The lithographic printing plate precursor as claimed in claim 1, wherein the fine particles containing a compound having a vinyloxy group or the microcapsules containing a compound having a vinyloxy group contain at least one component of an acid precursor and an infrared ray-absorbing dye.

5. The lithographic printing plate precursor as claimed in claim 1, wherein the fine particles containing a compound having a vinyloxy group or the microcapsules containing a compound having a vinyloxy group contain a compound having a functional group which reacts with a vinyloxy group.

6. The lithographic printing plate precursor as claimed in claim 1, wherein the hydrophilic resin contains a functional group which reacts with a vinyloxy group.

7. The lithographic printing plate precursor as claimed in claim 2, wherein the fine particles containing a compound having an epoxy group or the microcapsules containing a compound having an epoxy group contain at least one component of an acid precursor and an infrared ray-absorbing dye.

8. The lithographic printing plate precursor as claimed in claim 2, wherein the fine particles containing a compound having an epoxy group or the microcapsules containing a compound having an epoxy group contain a compound having a functional group which reacts with an epoxy group.

9. The lithographic printing plate precursor as claimed in claim 2, wherein the hydrophilic resin contains a functional group which reacts with an epoxy group.

10. The lithographic printing plate precursor as claimed in claim 3, wherein the fine particles containing a thermosetting compound contain an infrared ray-absorbing dye.

11. The lithographic printing plate precursor as claimed in claim 3, wherein the thermosetting compound is at least a resin selected from a resin having a phenolic skeleton, a melamine resin and a urea resin.

12. The lithographic printing plate precursor as claimed in claim 1, wherein the hydrophilic support is an aluminum support which has been subjected to anodization treatment and hydrophilization treatment.

13. The lithographic printing plate precursor as claimed in claim 2, wherein the hydrophilic support is an aluminum support which has been subjected to anodization treatment and hydrophilization treatment.

14. The lithographic printing plate precursor as claimed in claim 3, wherein the hydrophilic support is an aluminum support which has been subjected to anodization treatment and hydrophilization treatment

15. The lithographic printing plate precursor as claimed in claim 1, wherein the printing plate precursor is development processed on a printing machine.

16. The lithographic printing plate precursor as claimed in claim 2, wherein the printing plate precursor is development processed on a printing machine.

17. The lithographic printing plate precursor as claimed in claim 3, wherein the printing plate precursor is development processed on a printing machine.